

Claims

1. A Modular Accommodation System (BMAS) comprising one or more
5 Capsules or Cabins (BCs), preferably equipped with specially designed
beds (BBs), designed to be fitted into an ISO container frame to form
one or more Modules (BMs), preferably equipped with a semi-
automatic cleaning system (BS) and preferably combined, possibly
10 face-to-face (F2F), on one or more levels, thereby allowing the speedy
and easy construction of very compact, economical yet attractive,
collective housing facilities such as "Observer" Stand-alones,
"Shelters", "Step combinations", "Motels", "Camps", "Hotels/Youth
hostels", "River cruisers/Floating hotels", "Cruising catamarans", etc...
when complemented with the usual "shared facilities" or simply
15 "integrated in a building"
2. The BMAS of claim 1 wherein the Capsules or Capsules (BCs) consist
of a ~~private~~ compact, sound insulated "private quarters" (i.e.
20 bedroom ~~and~~ bathroom) accommodating 1 up to 4 users who can also
use it to relax, work, play, listen and view "immersive" multimedia, etc.
3. The BMAS of claim 1 or 2 wherein the BCs forming a said BM are
linked to the ISO container frame through silent blocks or equivalents
25 and externally covered with flexible foam and/or pre-formed rigid foam,
for proper sound/vibration and thermal insulation.
4. The BMAS of anyone of the previous claims wherein the BCs are fitted
with an angled front part, protruding outside the container frame,
30 allowing not only to increase the required depth to the said BC to
provide for full length adjustable beds but also to heighten the entrance
to the said BC, giving the user the unusual but pleasant impression of
walking down a few steps into the said BC, reminding that of going
from the cockpit into the cabin of a sailing boat.

5. The BMAS of claim 4 wherein the said difference of level, associated with the angled design of the said front part of the BCs, allows also for a narrower corridor between said BCs; from about 4' (1.2m) wide up to the waste-level (i.e. about 3' (90cm) over the walking path, where the width is not so important), it becomes wider to reach about 8' (2.4m) at eye level, which gives to the user the impression of a wide corridor.

6. The BMAS of claim 4 or 5 wherein the entrance into the said BC is done through the said front part by sliding sideward part of the angled frame.

7. The BMAS of anyone of the previous claims wherein two BMs are designed to be combined, typically "Face-to-Face" (F2F), on one or more levels, reaching a width of only about 24' (7.3m), including a built-in central corridor.

The BMAS of anyone of claims 4 to 7 wherein the BC is constituted by two interlocking shells and the said front part.

9. The BMAS of anyone of the previous claims wherein the BCs forming a BM furthermore comprising a semi-automatic cleaning System (BS), which comprises:

- A set of rails, running over the whole length of each BM, which are next and parallel to those of the BC's sliding doors.

10. A foldable trolley designed to be used with the BMAS of anyone of the previous claims, manual or motorized, running on these rails, usable to carry luggage, catering and/or other goods (like a usual hotel room cleaning trolley), which may be stored in a folded position at the end of each BM.

5 11. A removable cleaning equipment system designed to be used with the BMAS of anyone of the previous claims 1 to 9 and with the trolley of claim 10, which, placed on this trolley, will have one or more extendable (possibly "balanced") arms, which will be entered into the BC to vacuum clean it thoroughly, to wet clean the bathroom, the window and all other "wet cleanable" surfaces, and possibly to sanitize and/or deodorize /perfume the bathroom.

10 12. The BMAS of anyone of the previous claims comprising a bed apparatus (BB), preferably motorized, which can be fully converted to a chair, with all intermediate configurations suitable for relaxation.

15 13. The BMAS of claim 10 wherein the said BB apparatus is a combination of several rigid articulated frames (the shape of which varies with its "deformation" to become a flat bed, a relax couch/sofa or a straight chair and even in a vertical position, for example for storage), fitted with specially designed "converters" in lieu of the usual foundation parts and wherein these frames correspond to the "(leg) support", "base" and "headrest" sections of the apparatus.

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14. The BMAS of claim 11 wherein the said "converters" have basically two positions, "Hard" and "Soft", between which they can be rotated around a pivot fixed on the relevant said frame:

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- In the "Hard" position, the "converter" is rotated so that the slat bearing the mattress is a rigid metal or composite profile, which height can be adjusted to give an adequate "profile" to the mattress.
- In the "Soft" position, the "converter" is rotated so that the slat bearing the mattress is a flexible wood (or plastic, single or twin) slat, fully covered with a thick foam "cushion", which "increases" the mattress thickness accordingly.

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15. The BMAS of claim 12 wherein the said rotation between the "Hard" and "Soft" positions is done by pulling a cable fixed on each "converter" of a row or, for example, by pushing or pulling a rigid bar linking each "converter" in that row.

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16. The BMAS of claim 13 wherein the said rows of "converters" lining the frames of the "Seat" and "Back" sections in the chair configuration are mounted in "opposite" directions, so that the "developed" distance between these two parts is increased when switching the "converters" from "Soft" to "Hard".

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17. The BMAS of claim 14 wherein each of the four sections of the apparatus has the "converters" set in "Hard" or "Soft" position, depending on the actual configuration of the apparatus:

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- The converters of the "(leg) Support" and "Headrest" sections are actually normally always in the "Soft" position (which means these 2 sections are possibly not equipped with converters).
- Those of the "Seat" and "Back" sections are in a "Hard" position when the apparatus is configured as a chair and in a "Soft" position when the apparatus is configured as a bed, and can be either for the intermediate in-between Relax configurations.

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